



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

MC

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
08/750,715	03/19/1997	MANFRED EIGEN	P60752USO	4426

136 7590 05/17/2002

JACOBSON HOLMAN PLLC
400 SEVENTH STREET N.W.
SUITE 600
WASHINGTON, DC 20004

EXAMINER

NOLAND, THOMAS

ART UNIT PAPER NUMBER

2856

DATE MAILED: 05/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

08756,715

Applicant(s)

Eigen et al

Examiner

Tom No 62

Group Art Unit

2856

—The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—

Period for Reply

3

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Status

- ☒ Responsive to communication(s) filed on June 22, 2001
- ☒ This action is **FINAL**.
- ☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 1 1; 453 O.G. 213.

Disposition of Claims

- ☒ Claim(s) 33-46, 53-59 and 67 is/are pending in the application.
- ☐ Of the above claim(s) _____ is/are withdrawn from consideration.
- ☐ Claim(s) _____ is/are allowed.
- ☒ Claim(s) 33-46, 53-59 and 67 is/are rejected.
- ☐ Claim(s) _____ is/are objected to.
- ☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

- ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.
- ☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.
- ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- ☐ The specification is objected to by the Examiner.
- ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119 (a)-(d)

- ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
 - ☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been received.
 - ☐ received in Application No. (Series Code/Serial Number) _____
 - ☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

Attachment(s)

- ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). _____
- ☐ Interview Summary, PTO-413
- ☐ Notice of Reference(s) Cited, PTO-892
- ☐ Notice of Informal Patent Application, PTO-152
- ☐ Notice of Draftsperson's Patent Drawing Review, PTO-948
- ☐ Other _____

Office Action Summary

Art Unit: 2856

1. The request filed on Jan. 22, 2001 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 08/750,715 is acceptable and a CPA has been established. An action on the CPA follows.
2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claims 33-46, 53-59 and 67 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In claim 33, line 2 "aid" should be ---said---. In claim 38, line 3 "charges" should be ---charged---. There is no antecedent for "said pores" in line 8. To overcome it is suggested that "said pores" be replaced with ---pores therebetween---. Claiming of alternatives as in claim 36 is unclear in view of the disparagy between the alternatives and thus it should be claimed in a Markush type claim.
4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
A person shall be entitled to a patent unless --
(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
5. Claim 33 is rejected under 35 U.S.C. 102(a) as being anticipated by Eigen et al.
Note especially the abstract and the first two text paragraphs on pages 5740 and 5741.
6. Claims 33-46, 53-59 and 67 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is not understood from page 6, lines 2-14 or elsewhere in the

Art Unit: 2856

disclosure how the generated signal defines the volume element, determines the time to transfer the volume element, and controls the transfer as set forth in claim 33. How this is done does not appear to be readily apparent to one of ordinary skill in the art and appears to be material essential to understanding the invention and thus directed to the heart of the invention. A reference to an unpublished non U.S. patent application cannot substitute for disclosure of essential material. Even if such material can be shown to be present therein it must be specifically inserted to the specification when such is the source. It must also be shown that such source was clearly referred to as such a source in the original disclosure.

7. Claims 33-46, 53-59 and 67 are rejected under 35 U.S.C. 103(a) as being unpatentable over Martin et al, Ashkin et al, North Jr., Gohde et al or Weber et al.

The reasons for obviousness are substantially equivalent to those given in paragraph 13 of paper nor 8, mailed Jan. 30, 1998 since any differences appear known or obvious to one of ordinary skill in the sample handling and analysis arts since similar such techniques are known or obvious therein and as suggested by applicants arguments against the 35 U.S.C. 112(1) rejection while suggests that such differences are known in the art or obvious to one of ordinary skill therein. I.e. the transferring steps appear obvious based upon Applicants arguments supporting enablement that such transferring would have been obvious from the prior art. Other steps such as use of a piston pump, use of optical waveguides, etc. are clearly well known in the sample handling and analysis arts and would have been obvious to use as claimed in view of their well known utility for such purposes.

Art Unit: 2856

8. All claims are drawn to the same invention claimed in the parent application prior to the filing of this Continued Prosecution Application under 37 CFR 1.53(d) and no new ground of rejection has been made. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing under 37 CFR 1.53(d). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

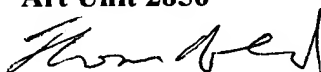
9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tom Noland whose telephone number is (703) 305-4765. The examiner can normally be reached on weekdays from 9:00 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Hezron E. Williams, can be reached on (703) 305-4705.

The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Thomas P. Noland
Primary Examiner
Art Unit 2856



tpn
May 15, 2002